

□if a English version is needed, please let me know□

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☐☐ ☐☐☐ email: gulifan@hotmail.com

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[illegible][illegible]

# ##### Turing Test #####

[illegible][illegible][illegible]

Nature

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[illegible]

[1]

[illegible][illegible][illegible]







[illegible][illegible][illegible][illegible]

1949 leukotomy

**Sheldon Glashow**, Department of Physical  
Philosophies and Mathematics, Department of Physics,  
[sheldonglashow.com](#)

[illegible][illegible][illegible][illegible]

□□□□□□□□

17x17

[illegible]

game

AlphaGo Zero

19x19 game  
game game game  
game

[illegible][illegible]

**1)**  AlphaGo Zero  superhuman

[illegible]

superhuman

2) Chinese room argument

### 3) The Selfish Gene (The Immortal Gene)

□ □

□ □ □ □ □ □ □

□ □

[illegible][illegible]

word-embedding vector space knowledge graph

[illegible]



この論文は、200 年以内に 10%、1% の確率で、  
2 年以内に

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2 年以内に

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2 年以内に

この論文は、200 年以内に 10%、1% の確率で、  
2 年以内に

## AlphaGo Zero Superhuman Quantum Supremacy

Nature 論文は、200 年以内に 10%、1% の確率で、  
2 年以内に

AlphaGo Zero Nature 論文は、superhuman 論文は、[3] AlphaGo 論文は、  
game 論文は、AlphaGo Zero 論文は、  
論文は、

論文は、game 論文は、Nature 論文は、Quantum  
Supremacy 論文は、[4]

論文は、Shor's algorithm 論文は、Quantum Supremacy

論文は、qubit 論文は、NISQ noisy  
intermediate-scale quantum

Quantum Supremacy 論文は、Sycamore 論文は、NISQ noise  
noise 論文は、  
noise

Sycamore 論文は、AlphaGo Zero 論文は、

Quantum Supremacy 論文は、noise 論文は、

Sycamore 論文は、Sycamore 論文は、  
200 10000

Quantum Supremacy NISQ John Preskill [5]

Quantum Supremacy Quantum  
Supremacy Nature



Quantum Supremacy ☐ optimization ☐ machine learning ☐  
☐ NISQ ☐ noisy ☐ Sycamore ☐

noisy

[illegible]

Quantum Supremacy

# Nature > Superhuman > Quantum Supremacy

[illegible]

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##### tensor #####
#####
#####

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# AlphaGo Zero → Superhuman → Quantum Supremacy → “ ” → “ ”

[illegible]

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[illegible][illegible]

Académie française

[illegible][illegible][illegible][illegible]

Superhuman □ Quantum Supremacy □□ phrase □□□□□□□□□□□□□□□□□□□□□□□□

[illegible][illegible][illegible][illegible]

2012 南京大屠殺紀念日 the Rape of Nanjing 南京大屠殺紀念日

2017 AlphaGo Zero superhuman 2019 Quantum Supremacy

1994 Forrest Gump

[illegible]

Forrest Gump polymath polymath  
 1994

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##### Forrest Gump #####
### polymath #####
#####
#####

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Forrest Gump

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[illegible]

integrity

□ □ □ □ □

[illegible][illegible]

leukotomy

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[1] Dialogo sopra i due massimi sistemi del mondo (Dialogue Concerning the Two Chief World Systems), Galileo Galilei, published in 1632.

[2] Philosophiæ Naturalis Principia Mathematica (Mathematical Principles of Natural Philosophy), Isaac Newton, published in 1687.

[3] Mastering the game of Go without human knowledge, Silver D., Schrittwieser J., Simonyan K. et al, published in Nature, on 18 October 2017:  
<https://www.nature.com/articles/nature24270>.

[4] Quantum supremacy using a programmable superconducting processor, Arute F. et al, published in Nature, on 23 October, 2019:  
<https://www.nature.com/articles/s41586-019-1666-5>

[5] <https://www.quantamagazine.org/john-preskill-explains-quantum-supremacy-20191002/>.